Module 3 Learning Goals

APR.1

Be able to justify each step in simplifying polynomial expressions.

APR.4

Understand that division of a polynomial by a monomial can be used to explain how to factor. (5-3)

Be able to factor a trinomial by grouping. (5-4)

Be able to prove your factored answer is correct by using distribution.

APR.3 (6-3)

Be able to explain what the Zero Product Property (ZPP) allows you to do.

Be able to apply the ZPP to find the zeros (roots, x-intercepts, solutions..etc.) of a quadratic.

Be able to use the zeros found and the vertex to construct a rough graph of a quadratic.

SSE.1

Understand how to apply order of operations.

Be able to label parts of an expression using terms like: constant, coefficient, term, factor

SSE.2 (5-4, 6-4,5)

Completing the square, difference of squares

Use the discriminant to determine the number of roots and tell if they are real or complex.

Use the quadratic formula to find the roots of any quadratic.

APR.2

Be able to evaluate functions using synthetic substitution.

Be able to determine whether a binomial is a factor of a polynomial by the rules of the Remainder Theorem.

BF.4 (7-8)

Know inverse notation.

Understand how to describe the steps to follow when finding an inverse function.

Be able to find the inverse of a given function.